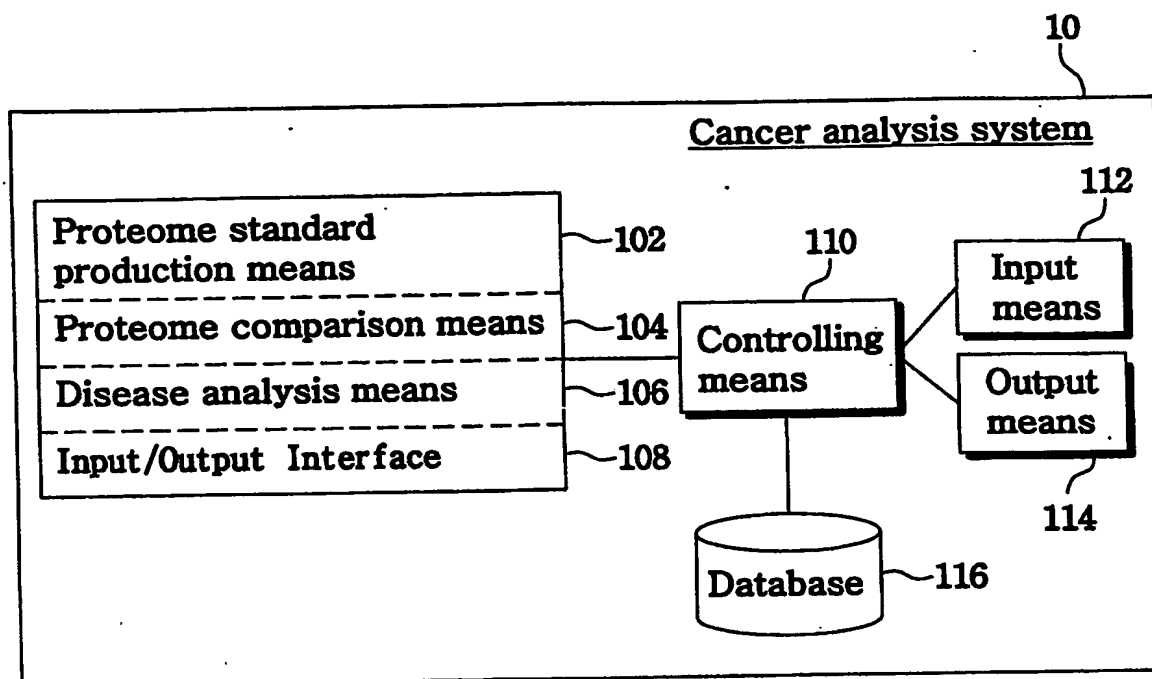
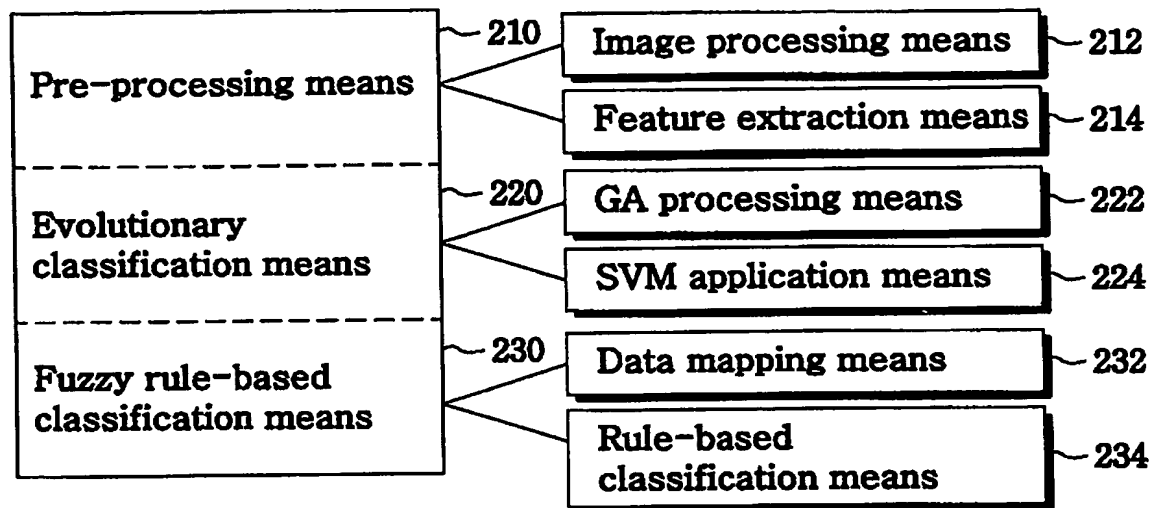
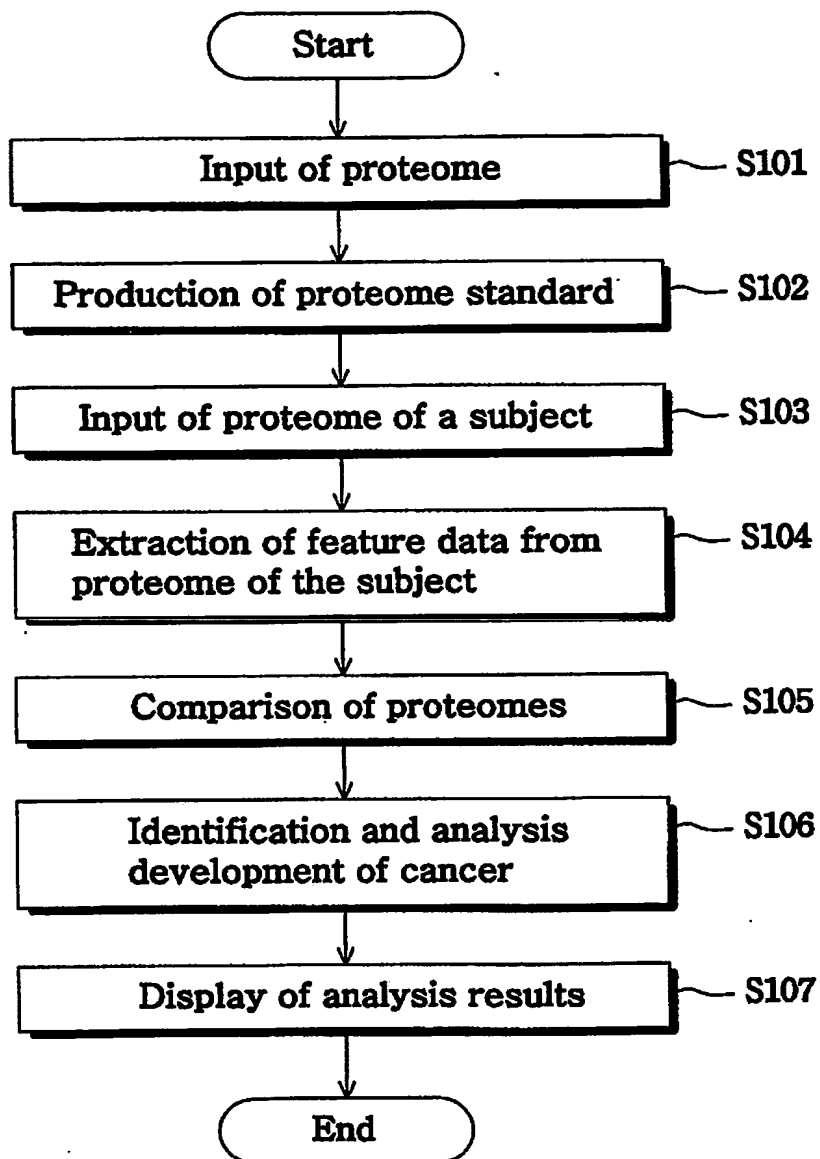
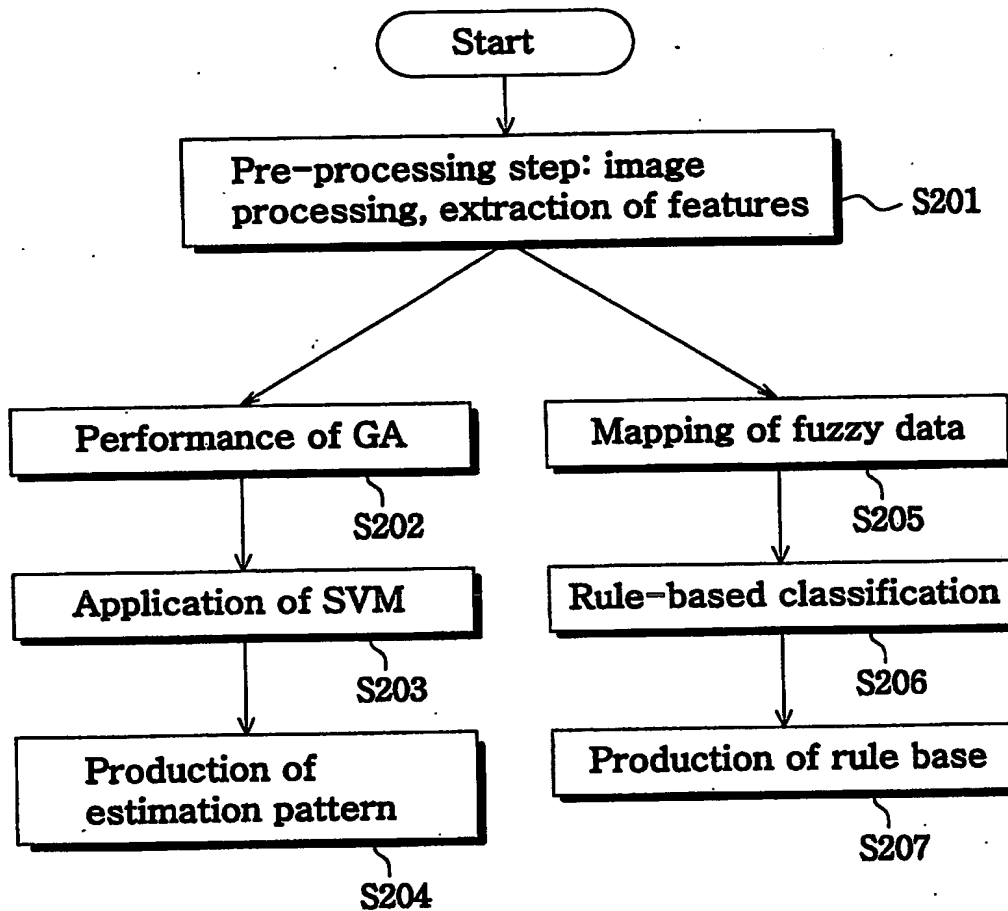


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FIG. 1

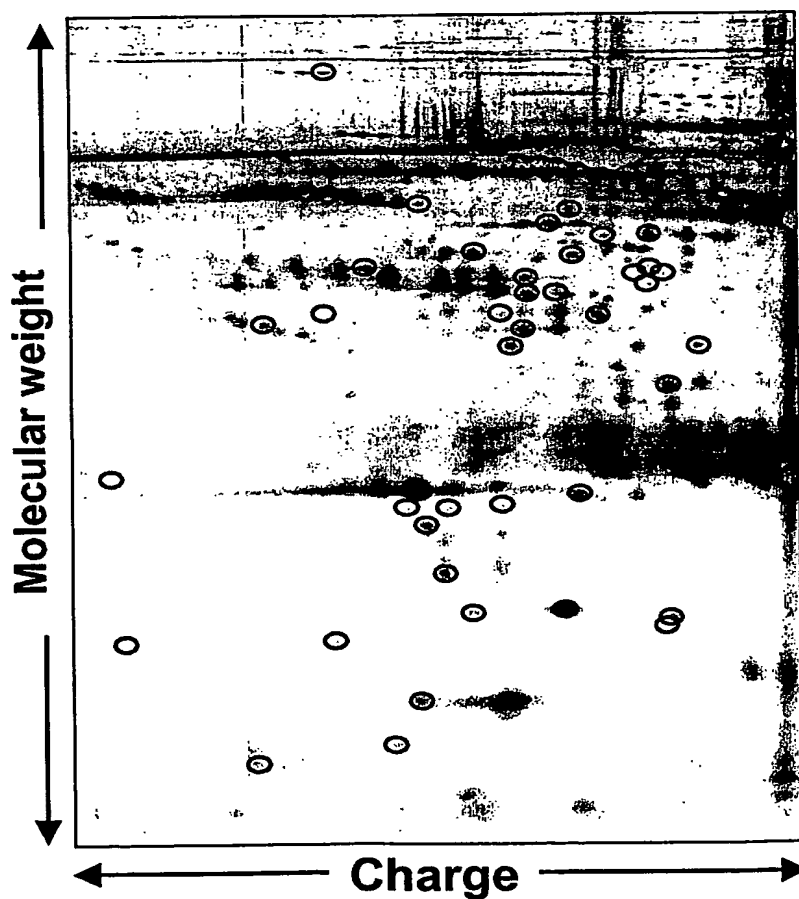
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FIG. 2

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FIG. 3

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FIG. 4

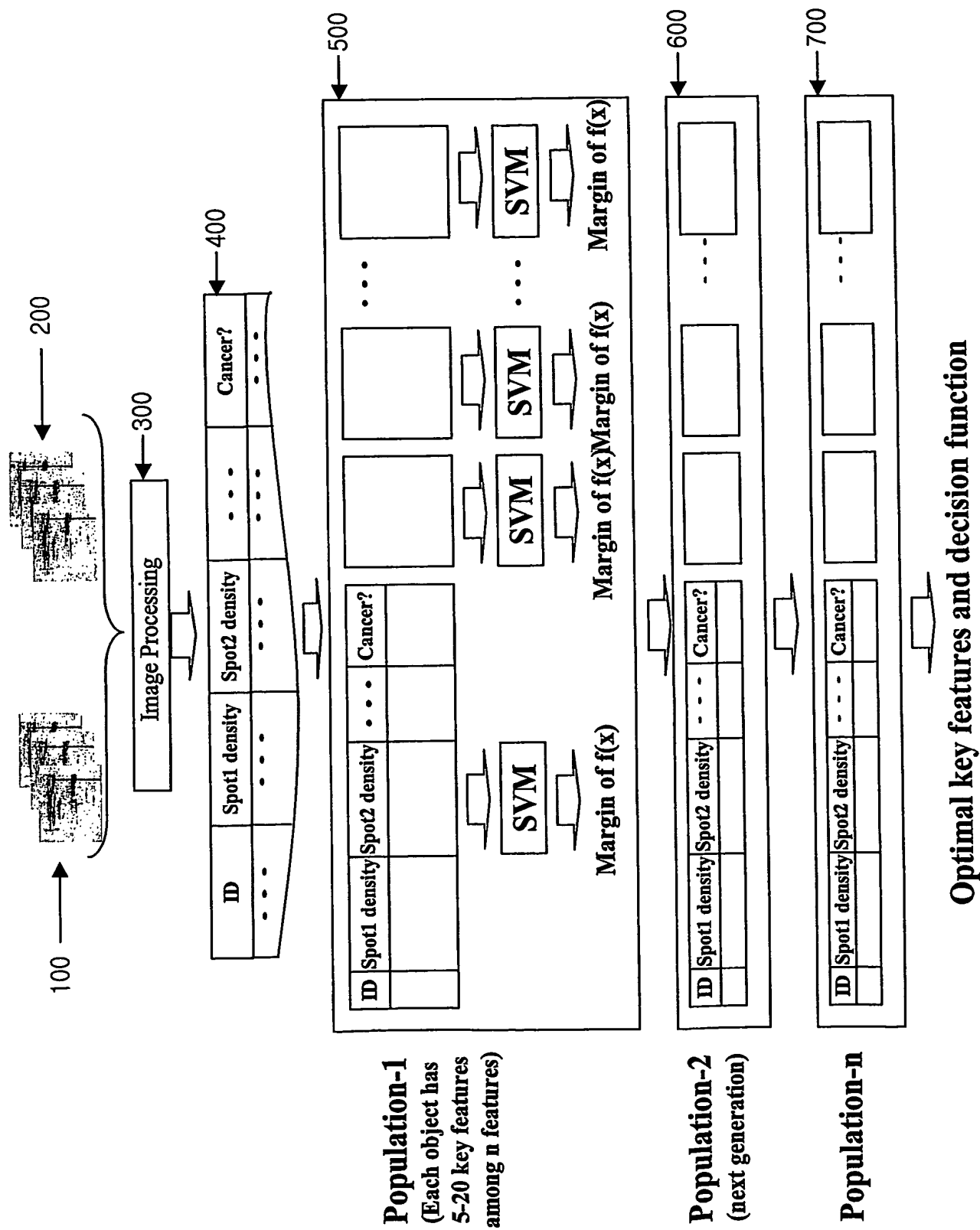
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FIG. 5

Serum proteome image



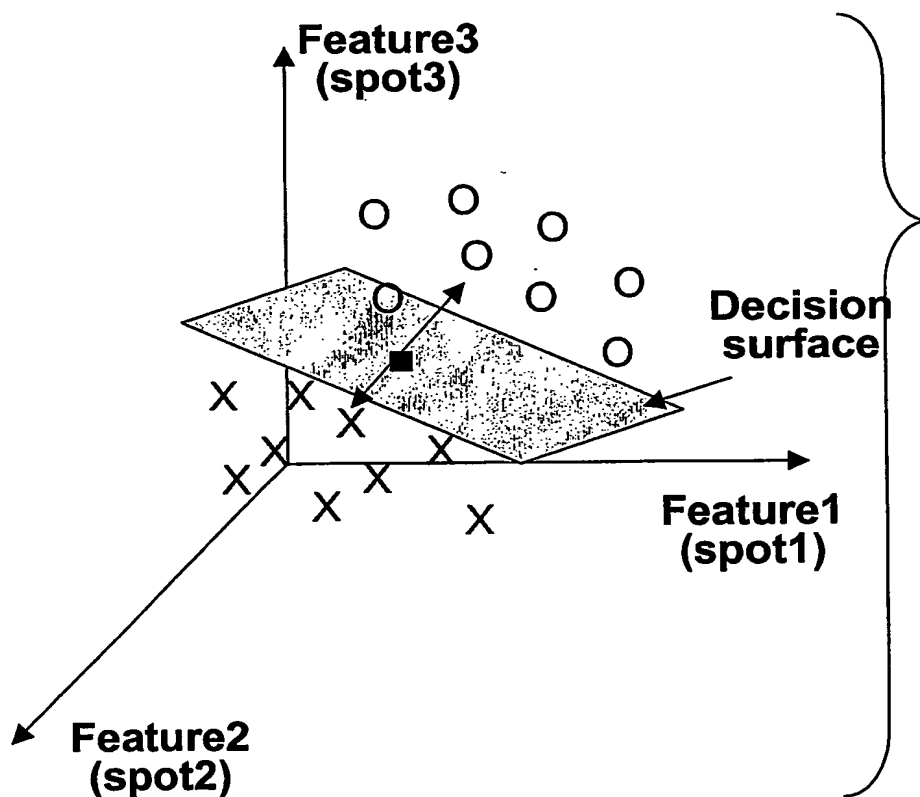
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FIG. 6

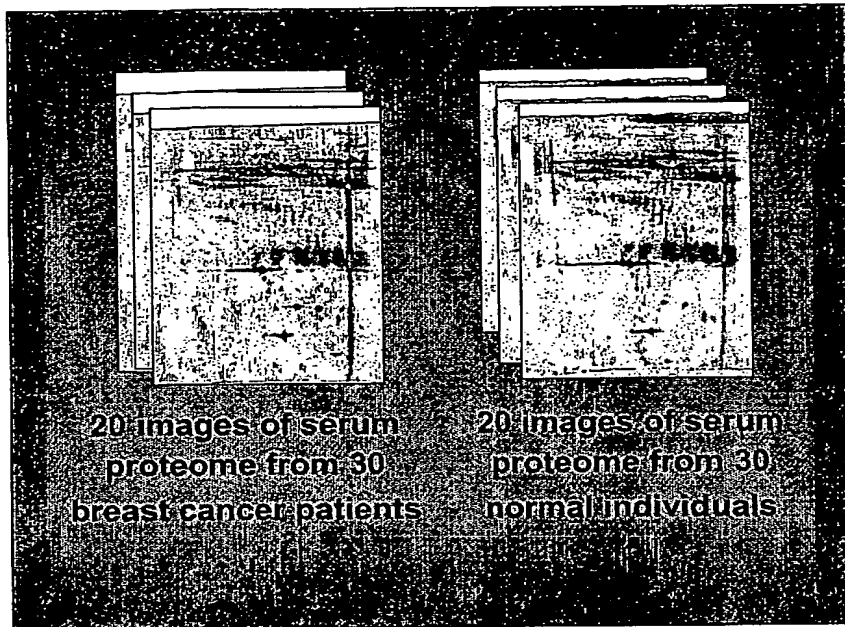


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FIG. 7

Support Vector Machine



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FIG. 8A



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FIG. 8B

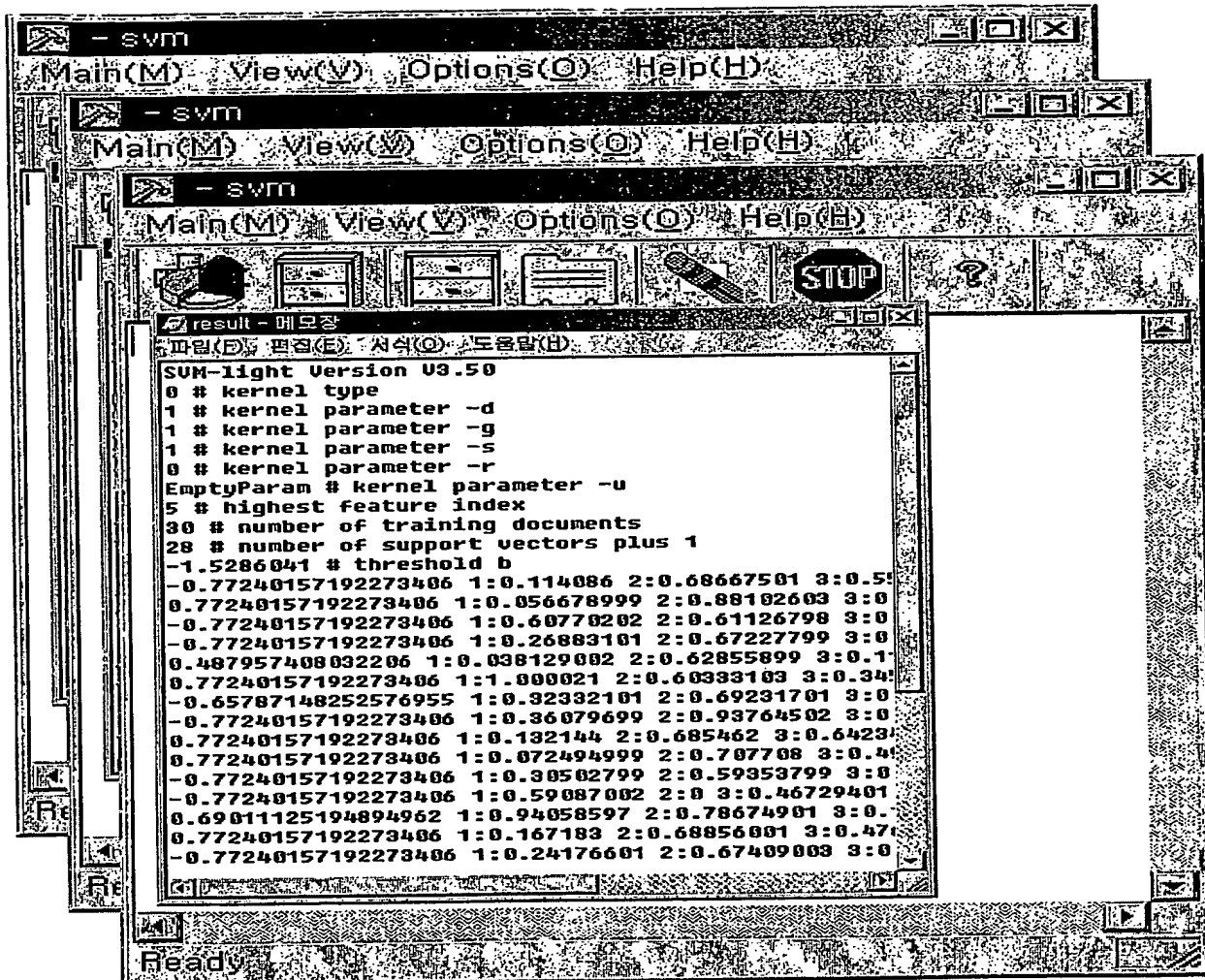
Microsoft Excel - 00.xls													
A1													
SSP													
	Marchset.G	Center x	Center y	Size x	Size y	Peak Wal	Quantity	Nom Qty	Quantity				
1	SSP	25.9899	41.0663	1.0288	0.7912	16.5442	4230.842	176.0852	97				
2	110S	C1 Final/0	28.675	42.9189	1.0449	0.4642	20.8736	240.7224	95				
3	111S	C1 Final/0	28.0331	41.9257	1.1202	0.8597	31.0714	388.2851	97				
4	112S	C1 Final/0	29.3657	41.7323	1.0247	0.7455	24.1615	422.2917	99				
5	113S	C1 Final/0	27.6031	41.7544	0.8212	0.4522	4.7495	555.3295	13				
6	114S	C1 Final/0	33.2851	43.9281	1.016	0.7448	30.2488	7191.598	448.4164	97			
7	115S	C1 Final/0	27.1828	40.6686	1.1074	0.7553	25.1038	6601.519	244.5058	99			
8	116S	C1 Final/0	32.5738	42.1211	1.0726	0.7902	37.6688	10029.18	428.8831	98			
9	117S	C1 Final/0	27.2045	42.2972	1.1202	0.6986	14.0222	3447.34	141.5822	98			
10	118S	C1 Final/0	31.8777	42.1948	1.0158	0.7457	29.5808	7019.912	285.0572	97			
11	119S	C1 Final/0	29.6574	41.3133	1.3979	0.821	52.6542	18983.55	843.4718	93			
12	120S	C1 Final/0	28.852	43.5612	1.3252	0.6421	8.0967	2164.358	153.8448	90			
13	121S	C1 Final/0	36.4325	40.7705	0.9115	0.0526	49.2358	12021.8	605.4489	90			
14	122S	C1 Final/0	28.9931	42.9507	0.9167	0.8118	68.5405	1615.3	659.6889	97			
15	123S	C1 Final/0	27.8638	40.8808	1.2403	0.7922	53.6314	16555.51	608.477	89			
16	124S	C1 Final/0	30.7217	41.0087	0.8925	0.7091	14.2607	2841.588	136.1634	74			
17	125S	C1 Final/0	29.2185	40.4291	1.3175	0.8509	40.7272	14344.78	549.9252	97			
18	126S	C1 Final/0	29.5828	42.9781	1.1112	0.7324	10.9538	2000.84	160.9054	89			
19	127S	C1 Final/0	27.0591	42.6235	1.0841	0.6368	16.6895	3617.098	217.9024	94			
20	128S	C1 Final/0	28.3744	38.7607	1.1028	0.813	61.2741	17260.21	718.549	95			
21	129S	C1 Final/0	31.3961	39.3158	1.2052	0.781	19.4416	5775.543	242.838	87			
22	130S	C1 Final/0	0	0	0	0	0	160.2212	7.0755	0			
23	131S	C1 Final/0	33.7845	39.9755	0.5715	1.1018	16.4832	3295.184	126.9553	67			
24	132S	C1 Final/0	30.1279	39.4207	0.7128	0.9507	11.7366	2408.564	103.4831	52			
25	133S	C1 Final/0											
26													

Spot information as a result of analysis of 2D images

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FIG. 8C

training1.txt - 메모장					
파일(F) 편집(E) 검색(S) 도움말(H)					
-1	1:0.10469	2:0.697725	3:0.194961	4:0.694044	5:0.0858921
-1	1:0.607702	2:0.611268	3:0.324889	4:0.83951	5:0
-1	1:0.305028	2:0.593538	3:0.444831	4:0.196162	5:0
-1	1:0.935767	2:0.6941	3:0.599006	4:0.383446	5:0
-1	1:0.368797	2:0.937645	3:0.73533	4:0.594774	5:0.004052
-1	1:0.251766	2:0.67489	3:0.620942	4:0.32962	5:0.455162
-1	1:0.268831	2:0.672278	3:0.470859	4:0.20504	5:0
-1	1:0.323321	2:0.692317	3:0.741731	4:0.612879	5:1
-1	1:0.587885	2:0.723582	3:0.715855	4:0.268364	5:0.476582
-1	1:0.791674	2:0	3:0.7621	4:0.476857	5:0.79177
-1	1:0	2:0.768455	3:0.681397	4:0.483412	5:0
-1	1:0.508975	2:0.769142	3:0.834057	4:0.534767	5:0
-1	1:0.114086	2:0.686675	3:0.558879	4:0.858539	5:0.233969
-1	1:0.59887	2:0	3:0.467294	4:0.097549	5:0.167253
-1	1:0.119543	2:0.663873	3:0.680977	4:0.404648	5:0
1	1:0.856679	2:0.881026	3:0.671866	4:0.486842	5:0
1	1:0.091151	2:0.758483	3:0.451989	4:0.144411	5:0
1	1:0.628173	2:0.668667	3:0.492968	4:0.889735	5:0
1	1:0.129938	2:0.707562	3:0.478118	4:0.065713	5:0
1	1:0.132144	2:0.685462	3:0.642347	4:0.22013	5:0
1	1:0.072495	2:0.707788	3:0.496983	4:0.130244	5:0
1	1:0.167183	2:0.68850	3:0.476744	4:0.158823	5:0.44212
1	1:0.351353	2:0.642065	3:0.491678	4:0.269793	5:0
1	1:0.282883	2:0.646962	3:0.474754	4:0.122441	5:0
1	1:0.129132	2:1	3:0	4:0.555828	5:0
1	1:0.788577	2:0.895335	3:0.234184	4:0.233345	5:0
1	1:0.888821	2:0.693331	3:0.345997	4:0.23493	5:0.747501
1	1:0.940586	2:0.786749	3:0.1358531	4:0.898833	5:0.58611
1	1:0.407529	2:0.745321	3:0.241465	4:0.586292	5:0
1	1:0.838120	2:0.628559	3:0.119552	4:0.101486	5:0.973087

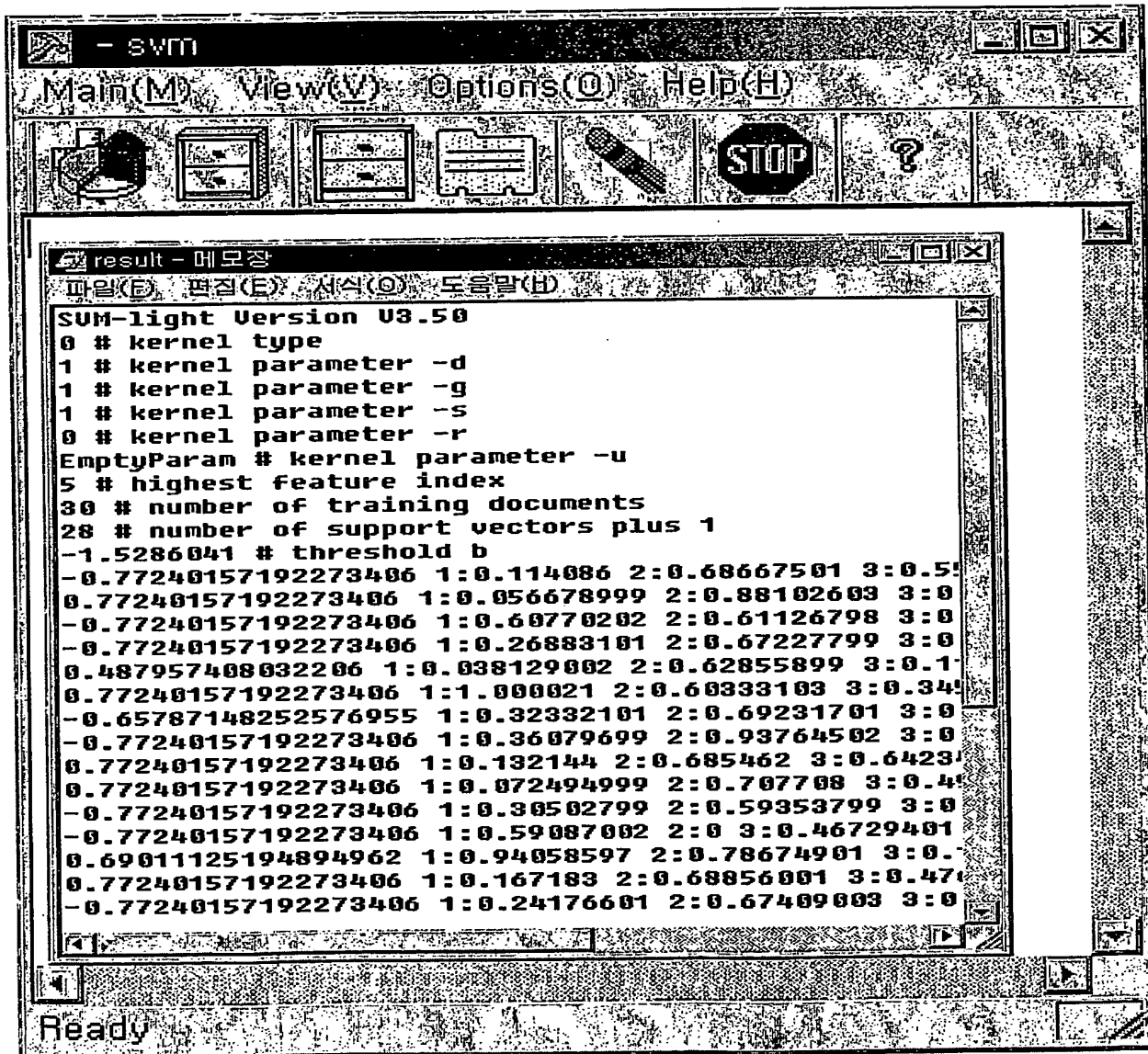
Processed training set

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FIG. 8D

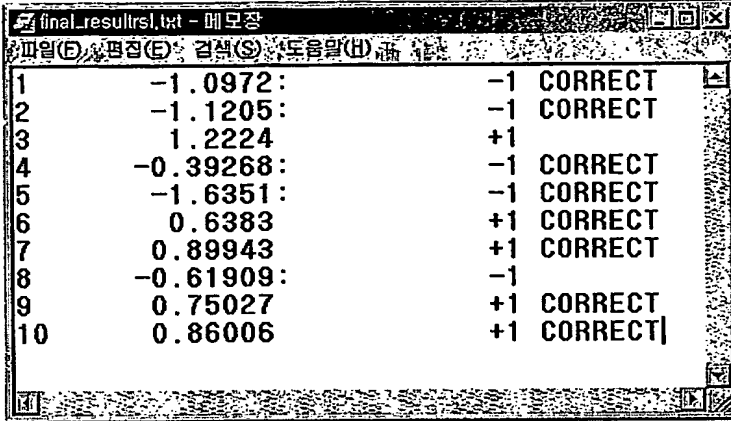
Application of SVM/GA

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FIG. 9A**Test Set of individuals
(cancer 33, normal 35)**

classif1.txt - 메모장					
파일(F)	편집(E)	검색(S)	도움말(H)		
-1	1:0.653996	2:0.856751	3:0.785041	4:0.080331	5:0.142553
-1	1:0.303655	2:0.69068	3:1	4:0.726181	5:0
-1	1:0.08852	2:0.655191	3:0.234804	4:0.14616	5:0
-1	1:0.460967	2:0.621134	3:0.824271	4:0.41638	5:0.02018
-1	1:0.799965	2:0.660263	3:0.827914	4:1	5:0.349266
1	1:0.123412	2:0.95635	3:0.424201	4:0.216259	5:0
1	1:0.317662	2:0.742086	3:0.463054	4:0.092377	5:0
1	1:0.493387	2:0.655585	3:0.828893	4:0.509369	5:0.159146
1	1:0.151278	2:0.860072	3:0.430383	4:0.283809	5:0
1	1:0.112535	2:0.610522	3:0.467818	4:0	5:0.344098

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FIG. 9B

Decision Model

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FIG. 9C

1	-1.0972:	-1	CORRECT
2	-1.1205:	-1	CORRECT
3	1.2224	+1	
4	-0.39268:	-1	CORRECT
5	-1.6351:	-1	CORRECT
6	0.6383	+1	CORRECT
7	0.89943	+1	CORRECT
8	-0.61909:	-1	
9	0.75027	+1	CORRECT
10	0.86006	+1	CORRECT

Judgment results

- Sensitivity → 100%
- Specificity → 88.57%
- Classification
Accuracy → 94.11%

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FIG. 10

final_result_correct - 메모장		
파일(F)	편집(E)	서식(O)
도움말(H)		
1	Value: -0.028090	CORRECT
2	Value: -0.063031	CORRECT
3	Value: -0.070359	CORRECT
4	Value: -0.143969	CORRECT
5	Value: -0.432804	CORRECT
6	Value: -0.065068	CORRECT
7	Value: -0.254395	CORRECT
8	Value: -0.549400	CORRECT
9	Value: -0.008596	CORRECT
10	Value: -0.111672	CORRECT
11	Value: -0.297110	CORRECT
12	Value: -0.026087	CORRECT
13	Value: -0.168022	CORRECT
14	Value: -0.444805	CORRECT
15	Value: -0.070969	CORRECT
16	Value: -0.113657	CORRECT
17	Value: -0.356628	CORRECT
18	Value: -0.033568	CORRECT
19	Value: -0.103226	CORRECT
20	Value: -0.032592	CORRECT
21	Value: -0.719609	CORRECT
22	Value: -0.070134	CORRECT
23	Value: -0.076287	CORRECT
24	Value: -0.114122	CORRECT
25	Value: -0.388866	CORRECT
26	Value: -0.072279	CORRECT
27	Value: -0.063312	CORRECT
28	Value: -0.015094	CORRECT
29	Value: -0.001590	CORRECT
30	Value: -0.240725	CORRECT
31	Value: -0.551444	CORRECT
32	Value: -0.131061	CORRECT
33	Value: -0.050204	CORRECT

final_result_correct - 메모장		
파일(F)	편집(E)	서식(O)
도움말(H)		
34	Value: 0.128098	CORRECT
35	Value: 0.152050	CORRECT
36	Value: 0.143676	CORRECT
37	Value: 0.471308	CORRECT
38	Value: 0.023612	CORRECT
39	Value: 0.220375	CORRECT
40	Value: 0.423242	CORRECT
41	Value: 0.205883	CORRECT
42	Value: 0.026667	CORRECT
43	Value: 0.396419	CORRECT
44	Value: 0.208644	CORRECT
45	Value: 0.379373	CORRECT
46	Value: 0.130483	CORRECT
47	Value: 0.080871	CORRECT
48	Value: 0.250706	CORRECT
49	Value: 0.222808	CORRECT
50	Value: -0.008513	
51	Value: 0.540522	CORRECT
52	Value: 0.211443	CORRECT
53	Value: 0.157327	CORRECT
54	Value: 0.031818	CORRECT
55	Value: 0.036034	CORRECT
56	Value: 0.210711	CORRECT
57	Value: 0.253144	CORRECT
58	Value: 0.124807	CORRECT
59	Value: 0.305226	CORRECT
60	Value: 0.136499	CORRECT
61	Value: -0.109483	
62	Value: 0.052921	CORRECT
63	Value: 0.155490	CORRECT
64	Value: 0.356410	CORRECT
65	Value: 0.025654	CORRECT
66	Value: -0.256264	
67	Value: 0.257911	CORRECT
68	Value: -0.242207	